

BIOLOGICAL SCIENCES AND CONSERVATION SECTION
JOINT SESSION

2:00 P.M. CONSERVATION AND BIOLOGICAL SCIENCES - JOINT SESSION - - G.K. Reid,
Presiding, Room 18

C-1 The Major Plants of Lake Okeechobee, Florida. K.E. KERCE, Florida Game and Fresh Water Fish Commission

C-2 A Preliminary Analysis of a Late Pleistocene Vertebrate Fauna from South Florida. W. G. WEAVER, L. D. OBER, Miami-Dade Junior College, North. - - Vertebrate fossils thus far excavated and identified from a Pleistocene deposit in southern Dade County reveal a fauna similar to that from the Vero Beach locality. A notable mammalian exception is Felis Atrox. The reptilian fauna is essentially modern except for the extinct giant tortoise Geocholone crassiscutata, and a pond turtle Chrysems scripta whose present natural range does not extend south of central Florida.

C-3 Bald Cypress and Mangrove Complex of the Jonathan Dickinson State Park (Florida). TAYLOR R. ALEXANDER, Univ. of Miami. - - The occurrence of cypress, mangrove, and certain other temperate zone and subtropical species has been analyzed by quadrat and transect methods. The data document the fact that large cypress trees have died in recent times. Analyses of water and soil indicate intrusion of salt water following man-made changes in historic water flow is a contributing factor.

C-4 A Survey of the Commercial Fishery of Lake Okeechobee, Florida. LOTHIN A. AGAR, Florida Game and Fresh Water Fish Commission

C-5 Mercury and Lead Determinations in the Estuarine Waters of Southeastern Volusia County, Florida. A KREUGER, B. JOHNSON, M. FIELDS, D. DEEDS, Stetson Univ. - - Catfish, mullet, trout, shrimp, and oysters were collected from 10 areas situated along 20 miles of the southern Halifax and northern Indian Rivers. River water, fish livers, and whole invertebrate animals were tested for mercury and lead by measuring a dithiozone complex spectrophotometrically. These preliminary studies suggest certain patterns in the distribution of mercury and lead in these estuarine waters and have established base levels against which to compare future measurements.

C-6 A Preliminary Checklist of Algae from the Dade-Collier Training and Transitional Port Facility.* NORMAN RICHARDSON, Univ. of Miami. - - In conjunction with the initial Jetport survey, a preliminary algal checklist was assembled from 27 samples collected during the months of June-August, 1970. No quantitative observations were made due to the short sampling period. Relative absence of conventional pollution indicators, seasonal variation, wide diversity of species and distribution of genera of the Cyanophyta are the underscored observations of the study.

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